

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/762,809A
Source: 1Fwjb
Date Processed by STIC: 3/7/07

ENTERED



IFW16

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/767,809A

DATE: 03/07/2007

TIME: 09:24:03

Input Set : A:\PC25496A US Sequence Listing.txt
 Output Set: N:\CRF4\03072007\J767809A.raw

3 <110> APPLICANT: Pfizer Inc.
 4 Dominowski, Paul J.
 5 Frantz, Joseph C.
 6 Krebs, Richard L.
 7 Shields, Shelly L.
 8 Sorensen, Robert G.
 10 <120> TITLE OF INVENTION: Canine Vaccines Against Bordetella Bronchiseptica
 12 <130> FILE REFERENCE: PC25496A
 14 <140> CURRENT APPLICATION NUMBER: 10/767809A
 15 <141> CURRENT FILING DATE: 2004-01-29
 17 <150> PRIOR APPLICATION NUMBER: 60/443,418
 18 <151> PRIOR FILING DATE: 2003-01-29
 20 <160> NUMBER OF SEQ ID NOS: 3
 22 <170> SOFTWARE: PatentIn version 3.3
 24 <210> SEQ ID NO: 1
 25 <211> LENGTH: 602
 26 <212> TYPE: PRT
 27 <213> ORGANISM: Bordetella bronchiseptica
 29 <400> SEQUENCE: 1
 31 Asp Pro Asn Thr Val Ser Ile Ile Lys Ala Gly Glu Arg Gln His Gly
 32 1 5 10 15
 35 Ile His Ile Lys Gln Ser Asp Gly Ala Gly Val Arg Thr Ala Thr Gly
 36 20 25 30
 39 Thr Thr Ile Lys Val Ser Gly Arg Gln Ala Gln Gly Val Leu Leu Glu
 40 35 40 45
 43 Asn Pro Ala Ala Glu Leu Arg Phe Gln Asn Gly Ser Val Thr Ser Ser
 44 50 55 60
 47 Gly Gln Leu Phe Asp Glu Gly Val Arg Arg Phe Leu Gly Thr Val Thr
 48 65 70 75 80
 51 Val Lys Ala Gly Lys Leu Val Ala Asp His Ala Thr Leu Ala Asn Val
 52 85 90 95
 55 Ser Asp Thr Arg Asp Asp Gly Ile Ala Leu Tyr Val Ala Gly Glu
 56 100 105 110
 59 Gln Ala Gln Ala Ser Ile Ala Asp Ser Thr Leu Gln Gly Ala Gly Gly
 60 115 120 125
 63 Val Arg Val Glu Arg Gly Ala Asn Val Thr Val Gln Arg Ser Thr Ile
 64 130 135 140
 67 Val Asp Gly Gly Leu His Ile Gly Thr Leu Gln Pro Leu Gln Pro Glu
 68 145 150 155 160
 71 Asp Leu Pro Pro Ser Arg Val Val Leu Gly Asp Thr Ser Val Thr Ala
 72 165 170 175
 75 Val Pro Ala Ser Gly Ala Pro Ala Ala Val Ser Val Phe Gly Ala Asn
 76 180 185 190

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/767,809A

DATE: 03/07/2007

TIME: 09:24:03

Input Set : A:\PC25496A US Sequence Listing.txt
 Output Set: N:\CRF4\03072007\J767809A.raw

79 Glu Leu Thr Val Asp Gly Gly His Ile Thr Gly Gly Arg Ala Ala Gly
 80 195 200 205
 83 Val Ala Ala Met Asp Gly Ala Ile Val His Leu Gln Arg Ala Thr Ile
 84 210 215 220
 87 Arg Arg Gly Asp Ala Pro Ala Gly Gly Ala Val Pro Gly Gly Ala Val
 88 225 230 235 240
 91 Pro Gly Gly Phe Gly Pro Leu Leu Asp Gly Trp Tyr Gly Val Asp Val
 92 245 250 255
 95 Ser Asp Ser Thr Val Asp Leu Ala Gln Ser Ile Val Glu Ala Pro Gln
 96 260 265 270
 99 Leu Gly Ala Ala Ile Arg Ala Gly Arg Gly Ala Arg Val Thr Val Ser
 100 275 280 285
 103 Gly Gly Ser Leu Ser Ala Pro His Gly Asn Val Ile Glu Thr Gly Gly
 104 290 295 300
 107 Gly Ala Arg Arg Phe Pro Pro Pro Ala Ser Pro Leu Ser Ile Thr Leu
 108 305 310 315 320
 111 Arg Ala Gly Ala Arg Ala Gln Gly Arg Ala Leu Leu Tyr Arg Val Leu
 112 325 330 335
 115 Pro Glu Pro Val Lys Leu Thr Leu Ala Gly Gly Ala Gln Gly Gln Gly
 116 340 345 350
 119 Asp Ile Val Ala Thr Glu Leu Pro Pro Ile Pro Gly Ala Ser Ser Gly
 120 355 360 365
 123 Pro Leu Asp Val Ala Leu Ala Ser Gln Ala Arg Trp Thr Gly Ala Thr
 124 370 375 380
 127 Arg Ala Val Asp Ser Leu Ser Ile Asp Asn Ala Thr Trp Val Met Thr
 128 385 390 395 400
 131 Asp Asn Ser Asn Val Gly Ala Leu Arg Leu Ala Ser Asp Gly Ser Val
 132 405 410 415
 135 Asp Phe Gln Gln Pro Ala Glu Ala Gly Arg Phe Lys Val Leu Met Val
 136 420 425 430
 139 Asp Thr Leu Ala Gly Ser Gly Leu Phe Arg Met Asn Val Phe Ala Asp
 140 435 440 445
 143 Leu Gly Leu Ser Asp Lys Leu Val Val Met Arg Asp Ala Ser Gly Gln
 144 450 455 460
 147 His Arg Leu Trp Val Arg Asn Ser Gly Ser Glu Pro Ala Ser Ala Asn
 148 465 470 475 480
 151 Thr Met Leu Leu Val Gln Thr Pro Arg Gly Ser Ala Ala Thr Phe Thr
 152 485 490 495
 155 Leu Ala Asn Lys Asp Gly Lys Val Asp Ile Gly Thr Tyr Arg Tyr Arg
 156 500 505 510
 159 Leu Ala Ala Asn Gly Asn Gly Gln Trp Ser Leu Val Gly Ala Lys Ala
 160 515 520 525
 163 Pro Pro Ala Pro Lys Pro Ala Pro Gln Pro Gly Pro Gln Pro Gly Pro
 164 530 535 540
 167 Gln Pro Gly Pro Gln Pro Pro Gln Pro Pro Gln Pro Pro Gln Pro Pro
 168 545 550 555 560
 171 Gln Arg Gln Pro Glu Ala Pro Ala Pro Gln Pro Pro Ala Gly Arg Glu
 172 565 570 575
 175 Leu Ser Ala Ala Asn Ala Ala Val Asn Thr Gly Gly Val Gly Leu

RAW SEQUENCE LISTING DATE: 03/07/2007
 PATENT APPLICATION: US/10/767,809A TIME: 09:24:03

Input Set : A:\PC25496A US Sequence Listing.txt
 Output Set: N:\CRF4\03072007\J767809A.raw

176	580	585	590	
179	Ala Ser Thr Leu Trp Tyr Ala Glu Ser Asn			
180	595	600		
183	<210> SEQ ID NO: 2			
184	<211> LENGTH: 1806			
185	<212> TYPE: DNA			
186	<213> ORGANISM: <i>Bordetella bronchiseptica</i>			
188	<400> SEQUENCE: 2			
189	gatccaaaca ctgtgtcaat catcaaggcc ggcgagcgcc agcacggcat ccacatcaag	60		
191	caaagcgatg ggcgcggcgt acggaccgccc accgaaacga ccatcaaggt aacgcggctgt	120		
193	caggcccgagg ggcgtctgtgt gaaaaatccc gggccggcgt tgcggttcca gaacggcagc	180		
195	gtcacgtctt cgggacagct gttcgacgaa ggcgtccggc gctttctggg caccgtcacc	240		
197	gtcaaggccg gcaagctgtgt cgccgatcac gccacgctgg ccaacgtcag cgacacccgg	300		
199	gacgacgacg gcatcgcgct ctatgtggcc ggcgagcagg cccaggccag catcgccgac	360		
201	agcacccctgc agggcgcggg cggcggtcggt gtcgagcgcg ggcgcgtatgt cacggtccaa	420		
203	cgcagcacca tcgttgcacgg gggcttgcgt atcggcaccc tgcagccgt gcagccggaa	480		
205	gaccttccgc ccagccgggt ggtgtgggc gacaccagcg tgaccgcgt gcccggcagc	540		
207	ggcgcgcccg cggcggtgtc tgtattcggg gccaatgagc ttacgggtga tggcgccgac	600		
209	atcacccgggg ggcgggcagc ggggggtggcg gccatggacg gggcgatcg gcatctgcag	660		
211	cgcgcgacga tacggcgggg gacgcgcgt gccggcggtg cggttccagg cgggtcggtt	720		
213	cccgccggct tcggcccccct cttgcacgac tggtatggcg tggatgtatc ggactccacc	780		
215	gtggacctcg ctcaagtcgtat cttgcaggcgcc cccgcgtatgg ggcgcgtatcg ccggcgccggc	840		
217	cgcggcgcca ggggtgacggt gtcggcgccg agcttgcgtg caccgcacgg caatgtcatc	900		
219	gagaccggcg gcggtgcgcg tcgttcccg cttccggct cggccctgtc gatcaccttg	960		
221	cgggccccggc cacggggcgca ggggagggcg ctgtgttacc gggccctgtc ggagcccggt	1020		
223	aagctgacgc tggcgccggc cggccagggg caggcgacata tcgtcgac gggctgttacc	1080		
225	cccatcccg ggcgcgtcgag cggccgcgtc gacgtggcgc tggccagcca gggccatgg	1140		
227	acgggcgcta cccgcgcgtt cgtactcgctg tccatcgaca acgcccaccc ggtcatgacg	1200		
229	gacaactcgaa acgtcgccgc gctgcggctg gccagcgacg gcagcgctcg tttccagcag	1260		
231	ccggccgaag ctggcggtt caagggtctg atggcgata cgtggcggtt ttcgggtctg	1320		
233	ttccgcgtatc atgttccgc gacgttccggc ctgagcgacata agctggctgt catcgccggac	1380		
235	gccagccggc agcacaggct gtgggtccgc aacagcgac ggcgcgtatcg cggcccaac	1440		
237	accatgtcgat tggtcgacac gacacgaggc acgcggcgat ctttaccct tgccaaacaag	1500		
239	gacggcaagg tcgatatcgat tacctaccgc tatcgattgg cggccaaacgg caatgggcag	1560		
241	tggagcctgg tggcgccgaa ggcgcgcgc ggcgcgcgc cggccgcgc gcccgggtccc	1620		
243	cagcccggtc cccagcccg tccccagccgc cgcagccgc cgcagccgc gcaagccgcca	1680		
245	cagaggcagc cggaaagcgcc ggcgcgcgaa ccgcggcgcc gcaaggatgt gtcggccgc	1740		
247	gccaacgcgg cggtaaacac ggggtgggtg ggcctggcca gcacgtctg gtacgcccggaa	1800		
249	agcaat	1806		
252	<210> SEQ ID NO: 3			
253	<211> LENGTH: 599			
254	<212> TYPE: PRT			
255	<213> ORGANISM: <i>Bordetella bronchiseptica</i>			
257	<400> SEQUENCE: 3			
259	Asp Trp Asn Asn Gln Ser Ile Ile Lys Ala Gly Glu Arg Gln His Gly			
260	1 5 10 15			
263	Ile His Ile Lys Gln Ser Asp Gly Ala Gly Val Arg Thr Ala Thr Gly			
264	20 25 30			
267	Thr Thr Ile Lys Val Ser Gly Arg Gln Ala Gln Gly Val Leu Leu Glu			

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/767,809A

DATE: 03/07/2007
TIME: 09:24:03

Input Set : A:\PC25496A US Sequence Listing.txt
Output Set: N:\CRF4\03072007\J767809A.raw

268	35	40	45	
271	Asn Pro Ala Ala Glu Leu Arg Phe Gln Asn Gly Ser Val Thr Ser Ser			
272	50	55	60	
275	Gly Gln Leu Phe Asp Glu Gly Val Arg Arg Phe Leu Gly Thr Val Thr			
276	65	70	75	80
279	Val Lys Ala Gly Lys Leu Val Ala Asp His Ala Thr Leu Ala Asn Val			
280	85	90	95	
283	Ser Asp Thr Arg Asp Asp Gly Ile Ala Leu Tyr Val Ala Gly Glu			
284	100	105	110	
287	Gln Ala Gln Ala Ser Ile Ala Asp Ser Thr Leu Gln Gly Ala Gly Gly			
288	115	120	125	
291	Val Arg Val Glu Arg Gly Ala Asn Val Thr Val Gln Arg Ser Thr Ile			
292	130	135	140	
295	Val Asp Gly Gly Leu His Ile Gly Thr Leu Gln Pro Leu Gln Pro Glu			
296	145	150	155	160
299	Asp Leu Pro Pro Ser Arg Val Val Leu Gly Asp Thr Ser Val Thr Ala			
300	165	170	175	
303	Val Pro Ala Ser Gly Ala Pro Ala Ala Val Ser Val Phe Gly Ala Asn			
304	180	185	190	
307	Glu Leu Thr Val Asp Gly Gly His Ile Thr Gly Gly Arg Ala Ala Gly			
308	195	200	205	
311	Val Ala Ala Met Asp Gly Ala Ile Val His Leu Gln Arg Ala Thr Ile			
312	210	215	220	
315	Arg Arg Gly Asp Ala Pro Ala Gly Gly Ala Val Pro Gly Gly Ala Val			
316	225	230	235	240
319	Pro Gly Gly Phe Gly Pro Leu Leu Asp Gly Trp Tyr Gly Val Asp Val			
320	245	250	255	
323	Ser Asp Ser Thr Val Asp Leu Ala Gln Ser Ile Val Glu Ala Pro Gln			
324	260	265	270	
327	Leu Gly Ala Ala Ile Arg Ala Gly Arg Gly Ala Arg Val Thr Val Ser			
328	275	280	285	
331	Gly Gly Ser Leu Ser Ala Pro His Gly Asn Val Ile Glu Thr Gly Gly			
332	290	295	300	
335	Gly Ala Arg Arg Phe Pro Pro Pro Ala Ser Pro Leu Ser Ile Thr Leu			
336	305	310	315	320
339	Gln Ala Gly Ala Arg Ala Gln Gly Arg Ala Leu Leu Tyr Arg Val Leu			
340	325	330	335	
343	Pro Glu Pro Val Lys Leu Thr Leu Ala Gly Gly Ala Gln Gly Gln Gly			
344	340	345	350	
347	Asp Ile Val Ala Thr Glu Leu Pro Pro Ile Pro Gly Ala Ser Ser Gly			
348	355	360	365	
351	Pro Leu Asp Val Ala Leu Ala Ser Gln Ala Arg Trp Thr Gly Ala Thr			
352	370	375	380	
355	Arg Ala Val Asp Ser Leu Ser Ile Asp Asn Ala Thr Trp Val Met Thr			
356	385	390	395	400
359	Asp Asn Ser Asn Val Gly Ala Leu Arg Leu Ala Ser Asp Gly Ser Val			
360	405	410	415	
363	Asp Phe Gln Gln Pro Ala Glu Ala Gly Arg Phe Lys Cys Leu Met Val			
364	420	425	430	

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/767,809A

DATE: 03/07/2007

TIME: 09:24:03

Input Set : A:\PC25496A US Sequence Listing.txt

Output Set: N:\CRF4\03072007\J767809A.raw

367 Asp Thr Leu Ala Gly Ser Gly Leu Phe Arg Met Asn Val Ala Phe Ala
368 435 440 445
371 Asp Leu Gly Leu Ser Asp Lys Leu Val Val Met Arg Asp Ala Ser Gly
372 450 455 460
375 Gln His Arg Leu Leu Val Arg Asn Ser Gly Ser Glu Pro Ala Ser Gly
376 465 470 475 480
379 Asn Thr Met Leu Leu Val Gln Thr Pro Arg Gly Ser Ala Ala Thr Phe
380 485 490 495
383 Thr Leu Ala Asn Lys Asp Gly Lys Val Asp Ile Gly Thr Tyr Arg Tyr
384 500 505 510
387 Arg Leu Ala Ala Asn Gly Asn Gly Gln Trp Ser Leu Val Gly Ala Lys
388 515 520 525
391 Ala Pro Pro Ala Pro Lys Pro Ala Pro Gln Pro Gly Pro Gln Pro Gly
392 530 535 540
395 Pro Gln Pro Pro Gln Pro Pro Gln Pro Pro Gln Pro Pro Gln Arg Gln
396 545 550 555 560
399 Pro Glu Ala Pro Ala Pro Gln Pro Pro Ala Gly Arg Glu Leu Ser Ala
400 565 570 575
403 Ala Ala Asn Ala Ala Val Asn Thr Gly Gly Val Gly Leu Ala Ser Thr
404 580 585 590
407 Leu Trp Tyr Ala Glu Ser Asn
408 595

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/767,809A

DATE: 03/07/2007

TIME: 09:24:04

Input Set : A:\PC25496A US Sequence Listing.txt

Output Set: N:\CRF4\03072007\J767809A.raw